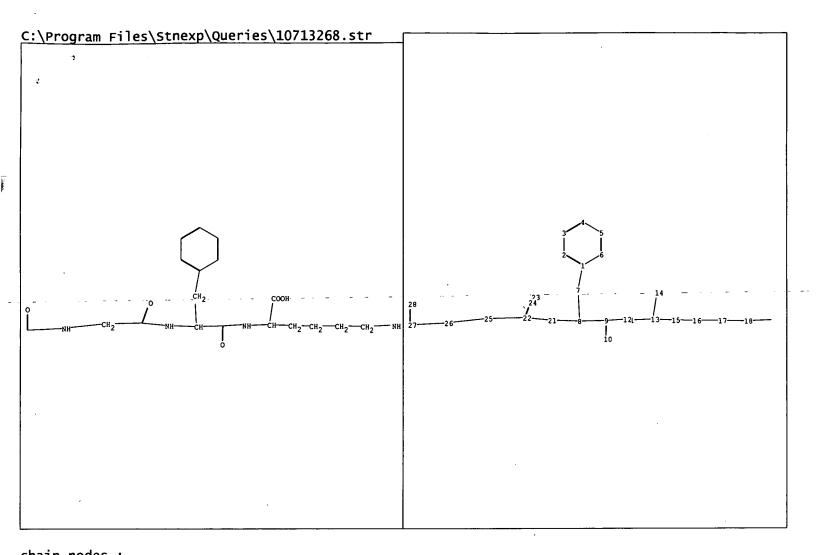
```
(FILE 'HOME' ENTERED AT 14:34:09 ON 02 MAR 2005)
     FILE 'REGISTRY' ENTERED AT 14:34:19 ON 02 MAR 2005
L1
                STRUCTURE UPLOADED
              0 S L1 SSS FULL
L2
     FILE 'REGISTRY' ENTERED AT 14:34:54 ON 02 MAR 2005
           2193 S [ACDEFGHIKLMNPQRSTVWY] ...Y [KR] / SQSP AND 4-50/SQL
L3
     FILE 'CAPLUS' ENTERED AT 14:36:11 ON 02 MAR 2005
            831 S L3
L4
            187 S L4 AND (GLYCO? OR GLUCOS? OR LACTO? OR MELIBIOS? OR MELLIBIOS
L5
L6
             61 S L5 AND (ANTIBOD? OR MONOCLON?)
             10 S L4 AND (GLYCOCONJUGAT? OR GLYCOPEPTID?)
L7
              5 S L4 AND (D-TYR OR D-TYROSIN?)
L8
L9 -
            241 S (GLYCO) (2A) (CONJUGAT? OR PEPTID?)
             39 S L9 AND (MELIBIOS? OR MELLIBIOS? OR MELLIBIIT? OR MELIBIIT? OR
L10
     FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 14:45:51 ON 02
            258 S (GOVINDAN, S? OR GOVINDAN S?)/AU, IN
L11
            209 S (IMMUNOMEDIC?)
L12
              6 S L11 AND L12
L13
L14
              3 DUP REM L13 (3 DUPLICATES REMOVED)
L15
            252 S L11 NOT L13
            461 S L11 OR L12
L16
            121 S L16 AND (RADIOLABEL?)
L17
              6 S L17 AND (TYR OR D-TYR OR D-TYROSIN?)
L18
L19
              4 DUP REM L18 (2 DUPLICATES REMOVED)
     FILE 'STNGUIDE' ENTERED AT 14:49:58 ON 02 MAR 2005
     FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 14:59:23 ON 02
     MAR 2005
             11 S (D-TYR OR D-AMINO) AND (CARBOHYDRATE? OR SACCHARIDE?) AND (RA
L20
              8 DUP REM L20 (3 DUPLICATES REMOVED)
L21
L22
             19 S (FRANANO, F? OR FRANANO F?)/AU, IN
              9 S L22 AND (METABOLISM)/TI
L23
              4 DUP REM L23 (5 DUPLICATES REMOVED)
L24
     FILE 'STNGUIDE' ENTERED AT 15:05:45 ON 02 MAR 2005
     FILE 'CAPLUS, EMBASE, BIOSIS' ENTERED AT 15:06:21 ON 02 MAR 2005
     FILE 'STNGUIDE' ENTERED AT 15:06:21 ON 02 MAR 2005
     FILE 'CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS' ENTERED AT 15:06:58 ON 02
     MAR 2005
            858 S (WILBUR, D? OR WILBUR D?)/AU,IN
L25
             12 S L25 AND (STABLE)/TI
L26
              5 DUP REM L26 (7 DUPLICATES REMOVED)
L27
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=>



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chain nodes :
    7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  
    ring nodes :
        1  2  3  4  5  6  
    chain bonds :
        1-7  7-8  8-9  8-21  9-10  9-12  11-13  13-14  13-15  15-16  16-17  17-18  18-20  21-22  
        22-24  22-25  25-26  26-27  27-28  
    ring bonds :
        1-2  1-6  2-3  3-4  4-5  5-6  
    exact/norm bonds :
        8-21  9-10  11-13  21-22  26-27  27-28  
    exact bonds :
        1-7  7-8  8-9  9-12  13-14  13-15  15-16  16-17  17-18  18-20  22-24  22-25  25-26  
    normalized bonds :
        1-2  1-6  2-3  3-4  4-5  5-6
```

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS

- ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- AN 1999:90010 CAPLUS
- 130:334689 DN
- Labeling of Monoclonal Antibodies with Diethylenetriaminepentaacetic ΤI Acid-Appended Radioiodinated Peptides Containing D-Amino Acids
- Govindan, Serengulam V.; Mattes, M. Jules; Stein, Rhona; ΑU McBride, Bill J.; Karacay, Habibe; Goldenberg, David M.; Hansen, Hans J.; Griffiths, Gary L.
- Immunomedics Inc., Morris Plains, NJ, 07950, USA CS
- Bioconjugate Chemistry (1999), 10(2), 231-240 so
 - CODEN: BCCHES; ISSN: 1043-1802 American Chemical Society
- PΒ DTJournal
- LA English
- The optimal use of radioiodinated internalizing monoclonal antibodies AB (mAbs) for radio-immunotherapy necessitates the development of practical methods for increasing the level of retention of 131I in the tumor. Lysosomally trapped ("residualizing") iodine radiolabels that have been previously designed are based mostly on carbohydrate-tyramine adducts, but these methods have drawbacks of low overall yields and/or high levels of mAb aggregation. We have developed a method using thiol-reactive diethylenetriaminepentaacetic acid (DTPA)-peptide adducts wherein the peptides are assembled with one or more D-amino acids, including D-tyrosine. Two such substrates, R-Gly-D-Tyr-D-Lys[1-(p-thiocarbonylaminobenzyl)DTPA], referred
 - to as IMP-R1, and [R-D-Ala-D-Tyr-D-
 - Tyr-D-Lys]2(CA-DTPA), referred to as IMP-R2, wherein R is 4-(N-maleimidomethyl)cyclohexane-1-carbonyl, were synthesized by preparing functional group-protected peptides on a solid phase, selectively derivatizing the lysine side chain with 1-(p-isothiocyanatobenzyl)DTPA or DTPA dianhydride (CA-DTPA), deprotecting other functional groups, and finally derivatizing the peptide's N-terminus so it contained a maleimide group. Radioiodinations of the peptides followed by conjugations to disulfide-reduced mAbs, carried out as a one-vial procedure, resulted in 32-89% overall yields, at specific activities of 1.8-11.1 mCi/mg, with less than 2% aggregation. Two internalizing mAbs, LL2 (anti-CD 22 B-cell lymphoma mAb) and RS7 (an anti-adenocarcinoma mAb which targets EGP-1 antigen), labeled with this procedure exhibited a 2-3-fold better cellular retention in Ramos and Calu-3 tumor cell lines, in vitro, resp., compared to the same mAbs radioiodinated with the chloramine-T method. The rationale for the new approach, syntheses, radiochem. and in vitro data are presented.
- RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L24 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
- AN 1995:460386 CAPLUS
- DN 122:309873
- TI Metabolism of receptor targeted 111In-DTPA-glycoproteins: Identification of 111In-DTPA-ε-lysine as the primary metabolic and excretory product
- AU Franano, F. Nicholas; Edwards, W. Barry; Welch, Michael J.; Duncan, James R.
- CS Edward Mallinckrodt Institute Radiology, Washington University School Medicine, St Louis, MO, 63110, USA
- SO Nuclear Medicine and Biology (1994), 21(8), 1023-34 CODEN: NMBIEO; ISSN: 0883-2897
- DT Journal
- LA _ English
- AB The hepatic and renal retention of indium-111 (111In) from 111In-labeled polypeptides has been the subject of many investigations. Because the lysosome is a common intracellular destination for the degradation of polypeptides, we studied the lysosomal metabolism of 111In-DTPA-labeled glycoproteins targeted to cell surface receptors in vitro and in vivo. We found that 111In-DTPA-glycoproteins were degraded to 111In-DTPA-clysine, which was slowly released from cells and recovered intact in urine and feces. These results suggest a mechanism for 111In retention at target and nontarget sites.

- L27 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
- AN 1991:2781 CAPLUS
- DN 114:2781
- TI Development of a **stable** radioiodinating reagent to label monoclonal antibodies for radiotherapy of cancer
- AU Wilbur, D. Scott; Hadley, Stephen W.; Hylarides, Mark D.; Abrams, Paul G.; Beaumier, Paul A.; Morgan, A. Charles; Reno, John M.; Fritzberg, Alan R.
- CS NeoRx Corp., Seattle, WA, 98119, USA
- SO Journal of Nuclear Medicine (1989), 30(2), 216-26 CODEN: JNMEAQ; ISSN: 0161-5505
- DT Journal
- LA English

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A method of radioiodinating monoclonal antibodies such that the labeled AB antibodies do not undergo in vivo deiodination has been studied. The method utilizes conjugation of succinimidyl p-iodobenzoate to the antibody. The iodobenzoate was radiolabeled by using an organometallic intermediate to facilitate the reaction. Thus, succinimidyl p-tri-n-butylstannylbenzoate was radiolabeled in 60-90% radiochem. yield and subsequently conjugated to the antibody in 80-90% yield. Animal biodistribution studies were carried out with 2 sep. anti-melanoma antibodies (9.2.27 and NR-M1-05) labeled by this method, and examined in nude mice bearing human melanoma tumor xenografts. Very large differences in the localization of radioactivity were observed in the thyroids and stomachs of mice when the iodobenzoyl-labeled antibodies were compared with the same antibodies labeled using the chloramine-T method of radioiodination. Few other differences in the tissue distribution of the radioiodinated antibodies were seen.

WEST Search History

Hide Items | Restore | Clear | Cancel |

DATE: Wednesday, March 02, 2005

| Hide? | <u>Set</u> Name | Query | <u>Hit</u> Count |
|--|--------------------|---|---------------------|
| DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR | | | |
| | L28 | (glycoconjugat\$).clm. and l4 | 11 |
| - - | L27 | 14 near30 glycoconjugat\$ | 10 |
| | L26 | l4 and glycoconjugat\$ | 285 |
| | L25 | L24 and (d-tyr or tyr or tyramin\$ or D-tyramin\$).clm. | 12 |
| | L24 | L23 and (peptid\$).clm. | 80 |
| | L23 | L22 and (conjugat\$ or glycopeptid\$ or glyco-conjugat\$ or radioiodinat\$ or radiolabel\$).clm. | 170 |
| | L22 | L21 and (iodine or I) | 1652 |
| | L21 | L20 and (galactos\$) | 1658 |
| | L20 | L19 and (\$conjugat\$ or \$glycoconjugat\$ or \$glyco-conjugat\$) | 2127 |
| | L19 | L17 and (maleimid\$ or MCC) | 2299 |
| | L18 | L17 and (maleimid\$ or MCC\$) | 3493 |
| | L17 | L4 and (glycopeptid\$ or saccharid\$ or melibios\$ or mellibios\$ or galactos\$ or sugar or lactos\$) | 12409 |
| | L16 | L15 same (glycopeptid\$ or saccharid\$ or melibios\$ or mellibios\$ or galactos\$ or sugar) | 7 |
| | L15 | (antibod\$ or conjugat\$ or monoclon\$)near30 (tyr or D-tyr)near2(lys or D-lys or orn or D-orn or D-arg or arg) | 517 |
| | L14 | (melibios\$ or mellibios\$ or mellibiit\$ or melibiit\$)near30 (tyr or D-tyr)near2 (lys or D-lys or orn or D-orn or D-arg or arg) | 3 |
| | L13 | L11 near20 (conjugat\$) | 0 |
| | L12 | L11 near20 (maleimid\$) | 0 |
| | L11 | (melibios\$ or mellibios\$ or mellibiit\$ or melibiit\$)near20(galactos\$) | 631 |
| | L10 | L9 and maleimid\$ | 38 |
| | L9 | L8 not 13 | 80 |
| | L8 | L7 and (melibios\$ or mellibiit\$ or melibiit\$) | 88 |
| | L7 | l6 and (isotop\$ or label\$ or radiolabel\$ or radio-label\$) | 13979 |
| | L6 | L4 and (antibod\$ or monoclon\$) | 16140 |
| | L5 | L4 or (antibod\$ or monoclon\$) | 213472 |
| | L4 | (tyr or D-tyr)near2(lys or D-lys or orn or D-orn or D-arg or arg) | 21217 |
| | L3 | L2 and (melibios\$ or mellibios\$ or mellibiit\$ or melibiit\$) | 8 |
| | L2 | L1 and antibod\$ | 76 |

h e b b cg b chh e c b e f c e bce

☐ L1 govindan

299

END OF SEARCH HISTORY

h e b b cg b chh e

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